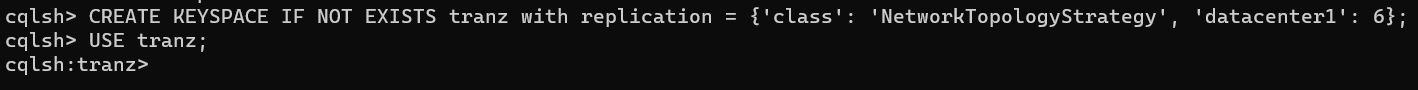
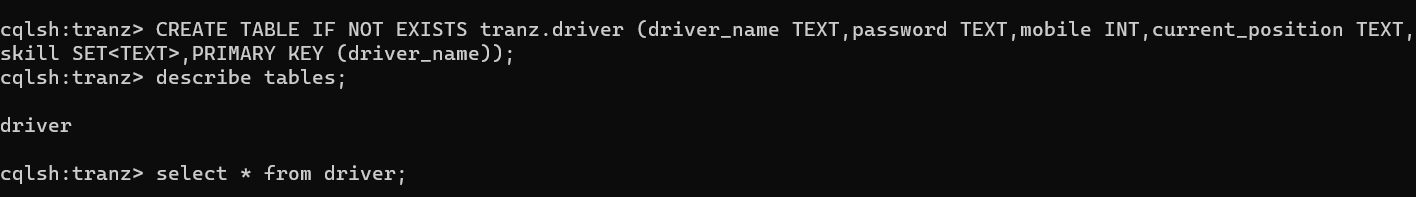
**NO SQL ASSIGNMENT**

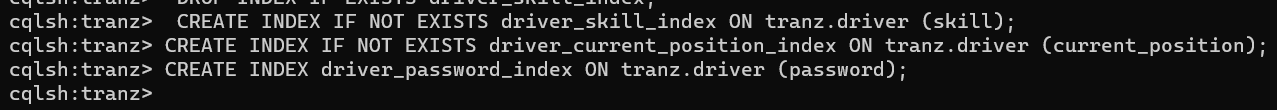
1. Create a keyspace for the application. Keyspace name: `tranz`.



2.Create a table for drivers if not exists. Table name: `driver`. Columns: `driver\_name` (unique, if not exists, primary key), `password` (string), `mobile` (number), `current\_position` (string), `skill` (`set` type with strings).



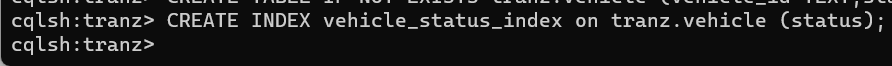
3.Create index We will filter drivers by skill ,password and current\_position. So create index on both.



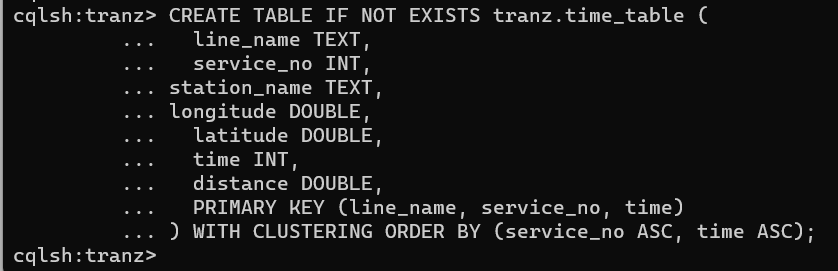
4 Create a table for vehicles. Table name: `vehicle`. Columns: `vehicle\_id` (string, unique, if not exists), `status` (string), type (string)



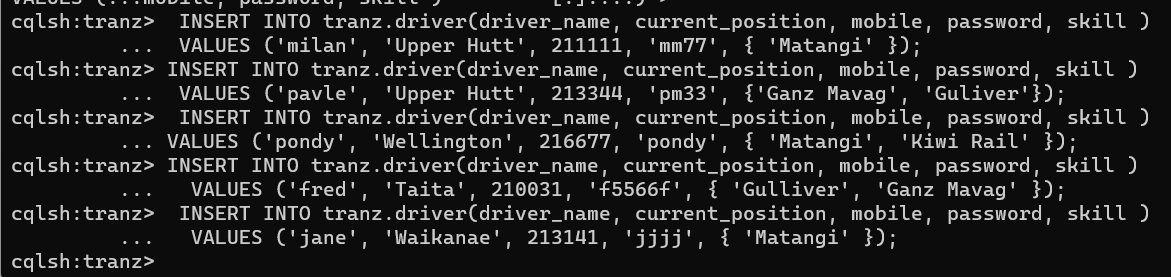
5. create index on status.



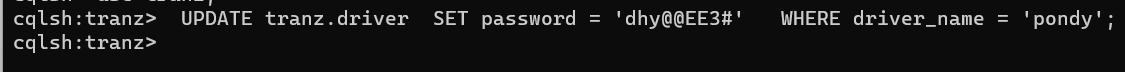
6. Create a table for timetables. Table name: `time\_table`. Columns: `line\_name` (unique, if not exists, string), `service\_no` (number, asc within line\_name), `station\_name` (string), `latitude` (double), `longitude` (double), `time` (int), `distance` (double), Notes: time are departure times, except the last (destination) time, it is arrival time. Sorted `asc` by `time`.



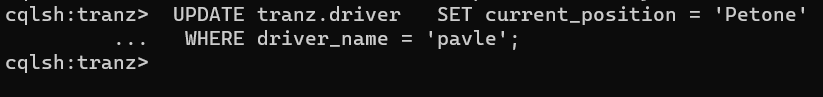
7.Insert the values into the table driver.



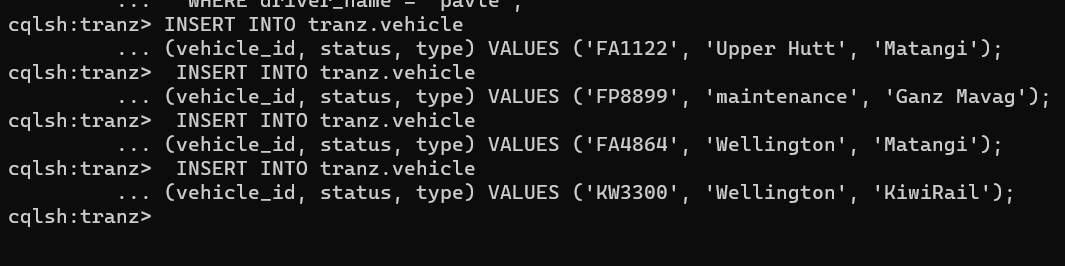
8 Drivers can change their password. They provide `old\_password` and `new\_password`. Update the driver's row with `new\_password` only if the `old\_password` equal with the stored `password`. If the conditions apply, `password` will be equal with `new\_password`.



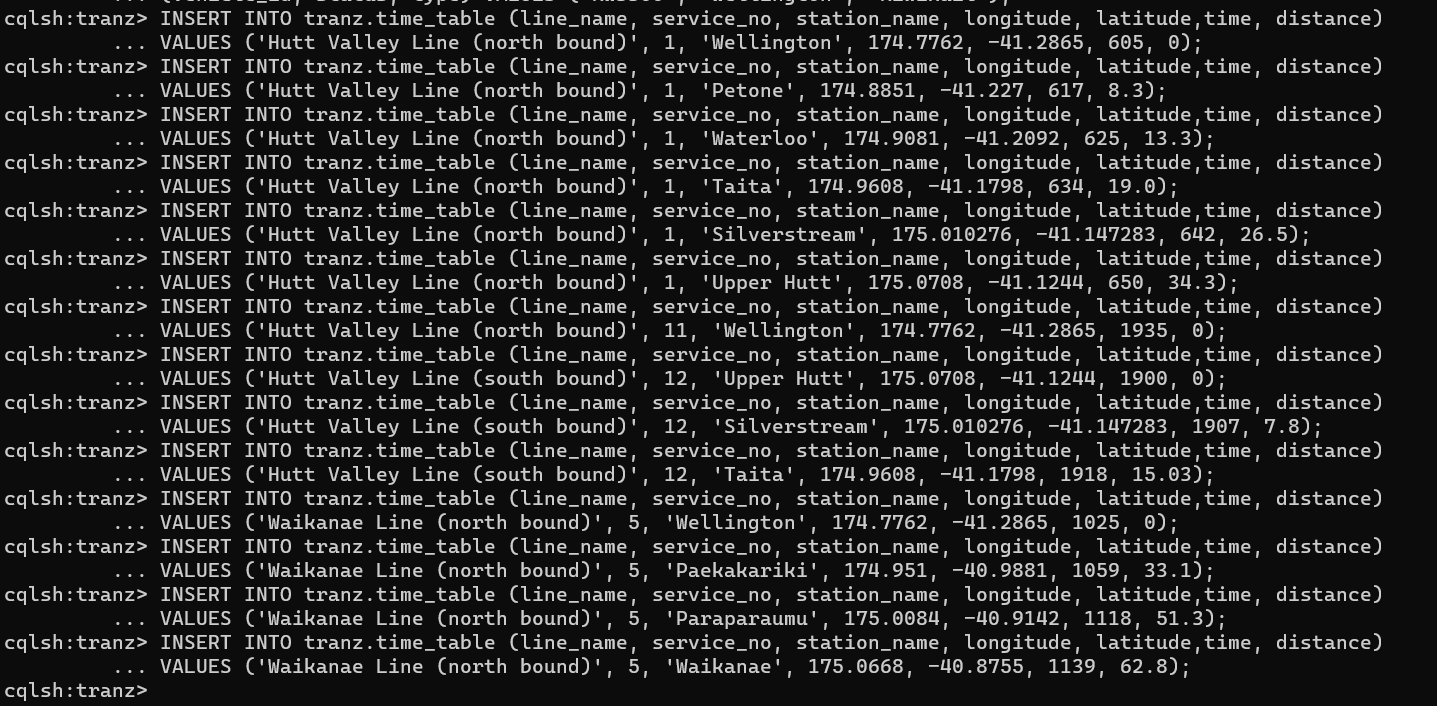
9. Drivers can update their `current\_position`: (with city name string) `'Wellington'` OR (with vehicle) `vehicle\_id` OR (with not available string constant) `'not\_available'`. The update process managed by the app, based on the driver's skill and the location of the train.



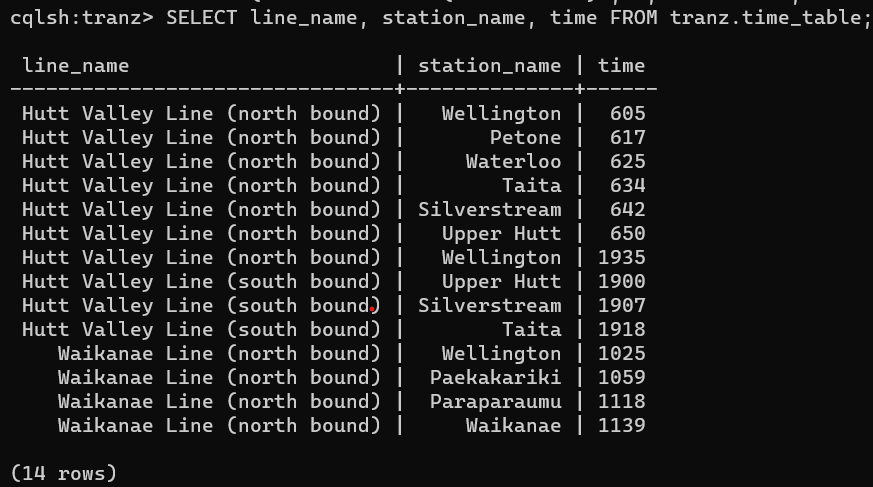
10. Seed the initial vehicles data.



11. Seed `time\_table.

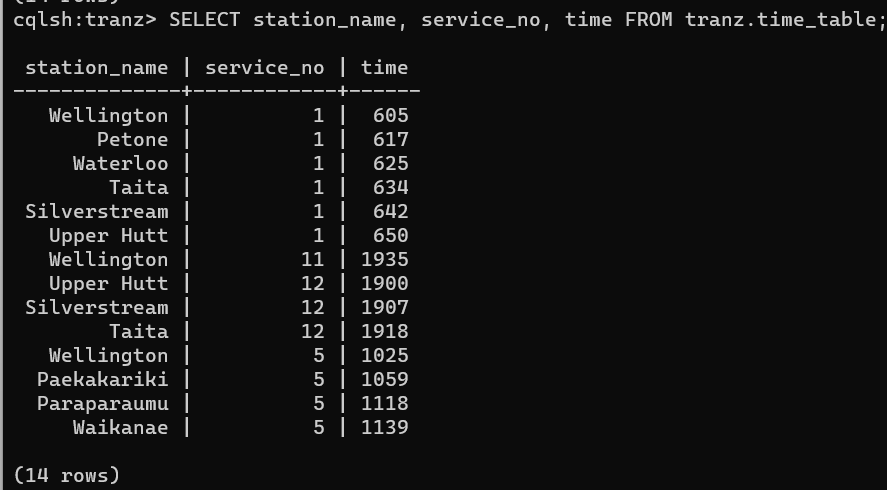


12. Read timetable data for showing timetable for passengers. Requested columns from `time\_table` table: `line\_name`, `station\_name`, `time`.

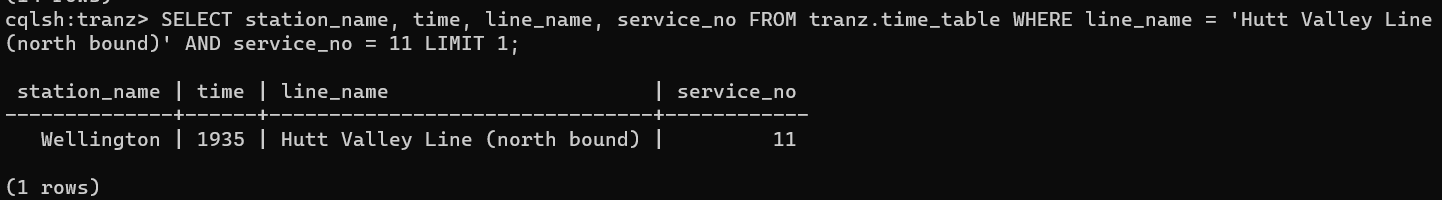


13. Application can list `station\_name`, `service\_no`, `time` from `time\_table`. `desc` sorted by `time`.

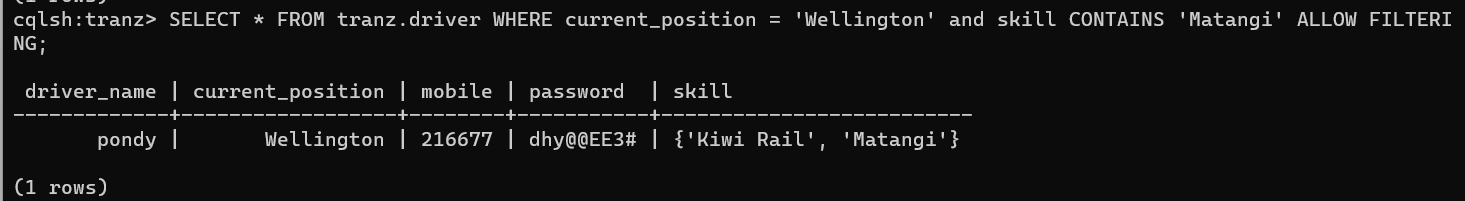
-- The sorting is ASC in this table, the data will be provided as ordered by ASC.



14. The iPhone app, which is on the train can read `station\_name`, `time`, `line\_name`, `service\_no..Display the fields when line\_name=’ 'Hutt Valley Line (north bound)' AND service\_no = 11 limiting to the first document.



15. The application runs a query to list trains on a station. Find the details when current\_position = 'Wellington' and skill is 'Matangi.



16. -- Return the `driver\_name` if the provided authentication data is right, otherwise no matching data, return an empty table.

